

$$AP_L = \frac{q}{L} \quad MP_L = \frac{q}{\Delta L}$$

$$1. AP_K = \frac{q}{K}$$

$$2. q = 21L + 9L^2 - L^3$$

$$21 + 18L - 3L^2$$

$$17 + 6L - L^2 \quad -1$$

$$18 - 6L \Rightarrow L = 3$$

$$(A) 17$$

$$(B) = 17$$

$$(C) = 3$$

$$3. L = 10$$

$$K = 5$$

$$MP_L = 5$$

$$q = 500$$

$$MP_K = 2.5$$

$$\frac{MP_L}{L} = \frac{MP_K}{K}$$

$$\Rightarrow MP_K = 2.5$$

$$4. (A) 5A + 10B = 9$$

$$(B) L = 2$$

$$K = 1$$